

## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/032,201A  
Source: OIPB  
Date Processed by STIC: 4/24/02

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

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**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

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**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

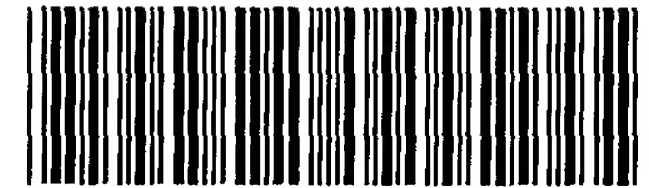
**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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OIPE

**Does Not Comply**  
**Corrected Diskette Needed**

*See p. 6*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002  
TIME: 10:57:50

Input Set : A:\351bseq.002  
Output Set: N:\CRF3\04242002\J032201A.raw

3 <110> APPLICANT: Van Rooijen, Gijs  
4 Deckers, Harm  
5 Heifetz, Peter Bernard  
6 Briggs, Steven  
7 Dalmia, Bipin Kumar  
8 Del Val, Greg  
9 Zaplachinski, Steve  
10 Moloney, Maurice  
12 <120> TITLE OF INVENTION: METHODS FOR THE PRODUCTION OF MULTIMERIC PROTEINS, AND  
RELATED  
13 COMPOSITIONS  
15 <130> FILE REFERENCE: 38814-351B  
17 <140> CURRENT APPLICATION NUMBER: 10/032,201A  
C--> 18 <141> CURRENT FILING DATE: 2002-04-09  
20 <160> NUMBER OF SEQ ID NOS: 313  
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 22  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Artificial Sequence  
29 <220> FEATURE:  
30 <223> OTHER INFORMATION: Primer  
32 <400> SEQUENCE: 1  
33 taccatggct tcggaagaag ga 22  
35 <210> SEQ ID NO: 2  
36 <211> LENGTH: 22  
37 <212> TYPE: DNA  
38 <213> ORGANISM: Artificial Sequence  
40 <220> FEATURE:  
41 <223> OTHER INFORMATION: Primer  
43 <400> SEQUENCE: 2  
44 gaaagcttaa gccaaagtgtt tg 22  
46 <210> SEQ ID NO: 3  
47 <211> LENGTH: 36  
48 <212> TYPE: DNA  
49 <213> ORGANISM: Artificial Sequence  
51 <220> FEATURE:  
52 <223> OTHER INFORMATION: Primer  
54 <400> SEQUENCE: 3  
55 ggccagcaca ctaccatgaa tggctctcgaa actcac 36  
57 <210> SEQ ID NO: 4  
58 <211> LENGTH: 28  
59 <212> TYPE: DNA  
60 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

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Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

62 <220> FEATURE:  
63 <223> OTHER INFORMATION: Primer  
65 <400> SEQUENCE: 4  
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69 <211> LENGTH: 72  
70 <212> TYPE: DNA  
71 <213> ORGANISM: Artificial Sequence  
73 <220> FEATURE:  
74 <223> OTHER INFORMATION: Primer  
76 <400> SEQUENCE: 5  
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78 gtgatcgct gc 72  
80 <210> SEQ ID NO: 6  
81 <211> LENGTH: 80  
82 <212> TYPE: DNA  
83 <213> ORGANISM: Artificial Sequence  
85 <220> FEATURE:  
86 <223> OTHER INFORMATION: Primer  
88 <400> SEQUENCE: 6  
89 atccgtcgag tcaacatctc cagtttcctc ggtgggtctcg ttagccttcg atccagcaat 60  
90 ctcttgtaag aatgctctgc 80  
92 <210> SEQ ID NO: 7  
93 <211> LENGTH: 22  
94 <212> TYPE: DNA  
95 <213> ORGANISM: Artificial Sequence  
97 <220> FEATURE:  
98 <223> OTHER INFORMATION: Primer  
100 <400> SEQUENCE: 7  
101 gtggaagctt atggagatgg ag 22  
103 <210> SEQ ID NO: 8  
104 <211> LENGTH: 1002  
105 <212> TYPE: DNA  
106 <213> ORGANISM: Artificial Sequence  
108 <220> FEATURE:  
109 <223> OTHER INFORMATION: Chimeric  
111 <400> SEQUENCE: 8  
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113 cacacggcgg cgatttacgc agctagggt gaacttaaac ctcttctctt cgaaggatgg 120  
114 atggctaacg acatcgctcc cgggtggtaaa ctaacaacca ccaccgacgt cgagaatttc 180  
115 cccggatttc cagaaggat tctcggagta gagctcactg acaaattccg taaacaatcg 240  
116 gagcgattcg gtactacgat atttacagag acggtgacga aagtcgattt ctcttcgaaa 300  
117 ccgtttaagc tattcacaga ttcaaaagcc attctcgctg acgctgtgat tctcgctact 360  
118 ggagctgtgg ctaagcggct tagcttcggt ggatctgggt aagggttctgg aggtttctgg 420  
119 aaccgtggaa tctccgcttg tgctgtttgc gacggagctg ctccgatatt ccgtaacaaa 480  
120 cctcttgccg tgatcgggtg aggcgattca gcaatggaag aagcaaactt tcttacaaaa 540  
121 tatggatcta aagtgtatat aatccatagg agagatgctt ttagagcgtc taagattatg 600  
122 cagcagcgag ctttgtctaa tctaagatt gatgtgattt ggaactcgtc tggtgtggaa 660  
123 gcttatggag atggagaaag agatgtgctt ggaggattga aagtgaagaa tgtgggtacc 720

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

TIME: 10:57:50

Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

124 ggagatgttt ctgatttaaa agtttctgga ttgttctttg ctattggtca tgagccagct 780  
125 accaagtttt tggatggtgg tgttgagtta gattcggatg gttatgttgt cacgaagcct 840  
126 ggtactacac agactagcgt tcccggagtt ttcgctgcgg gtgatgttca ggataagaag 900  
127 tataggcaag ccatcactgc tgcaggaact ggggtgcatgg cagctttgga tgcagagcat 960  
128 tacttacaag agattggatc tcagcaaggt aagagtgatt ga 1002

130 &lt;210&gt; SEQ ID NO: 9

131 &lt;211&gt; LENGTH: 999

132 &lt;212&gt; TYPE: DNA

133 &lt;213&gt; ORGANISM: Arabidopsis thaliana

135 &lt;400&gt; SEQUENCE: 9

136 atgaatggtc tcgaaactca caacacaagg ctctgtatcg taggaagtgg cccagcggca 60  
137 cacacggcgg cgatttacgc agctagggct gaacttaaac ctcttctctt cgaaggatgg 120  
138 atggctaacg acatcgctcc cgggtggtcaa ctcaaccaac caccgcgtga gaatttcccc 180  
139 ggatttccag aaggatttct cggagtagag ctactgaca aattccgtaa acaatcggag 240  
140 cgattcggta ctacgatatt tacagagacg gtgacgaaag tcgatttctc ttcgaaaccg 300  
141 tttaagctat tcacagattc aaaagccatt ctgctgacg ctgtgattct cgctatcgga 360  
142 gctgtggcta agtggcttag ctctgttggg tctggtgaag ttctcggagg tttgtggaac 420  
143 cgtggaatct ccgcttgtgc tgtttgcgac ggagctgctc cgatattccg caacaaacct 480  
144 cttgcggtga tcggtggagg cgattctgca atggaagaag caaactttct tacaaaatat 540  
145 ggatctaaag tgtatataat cgataggaga gatgctttta gagcgtctaa gattatgcag 600  
146 cagcgagctt tgtctaattc taagattgat gtgatttggg actcgtctgt tgtggaagct 660  
147 tatggagatg gagaaagaga tgtgcttggg ggattgaaag tgaagaatgt ggttaccgga 720  
148 gatgtttctg atttaaaagt ttctggattg ttctttgcta ttgggtcatga gccagctacc 780  
149 aagtttttgg atggtggtgt tgagttagat tcggatgggt atgttgctac gaagcctggt 840  
150 actacacaga ctacgcttcc cggagttttc gctgcgggtg atgttcagga taagaagtat 900  
151 aggcaagcca tcaactgctc aggaactggg tgcattggcag ctttggatgc agagcattac 960  
152 ttacaagaga ttggatctca gcaaggtaag agtgattga 999

154 &lt;210&gt; SEQ ID NO: 10

155 &lt;211&gt; LENGTH: 1002

156 &lt;212&gt; TYPE: DNA

157 &lt;213&gt; ORGANISM: Artificial Sequence

159 &lt;220&gt; FEATURE:

160 &lt;223&gt; OTHER INFORMATION: Chimeric

W--&gt; 162 &lt;221&gt; NAME/KEY: CDS

163 &lt;222&gt; LOCATION: (1)...(1002)

164 &lt;223&gt; OTHER INFORMATION: cDNA encoding NADPH thioredoxin reductase

W--&gt; 166 &lt;400&gt; 10

167 atg aat ggt ctc gaa act cac aac aca agg ctc tgt atc gta gga agt 48  
168 Met Asn Gly Leu Glu Thr His Asn Thr Arg Leu Cys Ile Val Gly Ser  
169 1 5 10 15  
171 ggc cca gcg gca cac acg gcg gcg att tac gca gct agg gct gaa ctt 96  
172 Gly Pro Ala Ala His Thr Ala Ala Ile Tyr Ala Ala Arg Ala Glu Leu  
173 20 25 30  
175 aaa cct ctt ctc ttc gaa gga tgg atg gct aac gac atc gct ccc ggt 144  
176 Lys Pro Leu Leu Phe Glu Gly Trp Met Ala Asn Asp Ile Ala Pro Gly  
177 35 40 45  
179 ggt caa cta aca acc acc acc gac gtc gag aat ttc ccc gga ttt cca 192  
180 Gly Gln Leu Thr Thr Thr Thr Asp Val Glu Asn Phe Pro Gly Phe Pro  
181 50 55 60

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

TIME: 10:57:50

Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

183	gaa	ggt	att	ctc	gga	gta	gag	ctc	act	gac	aaa	ttc	cgt	aaa	caa	tcg	240
184	Glu	Gly	Ile	Leu	Gly	Val	Glu	Leu	Thr	Asp	Lys	Phe	Arg	Lys	Gln	Ser	
185	65				70					75					80		
187	gag	cga	ttc	ggt	act	acg	ata	ttt	aca	gag	acg	gtg	acg	aaa	gtc	gat	288
188	Glu	Arg	Phe	Gly	Thr	Thr	Ile	Phe	Thr	Glu	Thr	Val	Thr	Lys	Val	Asp	
189				85					90						95		
191	ttc	tct	tcg	aaa	ccg	ttt	aag	cta	ttc	aca	gat	tca	aaa	gcc	att	ctc	336
192	Phe	Ser	Ser	Lys	Pro	Phe	Lys	Leu	Phe	Thr	Asp	Ser	Lys	Ala	Ile	Leu	
193				100					105					110			
195	gct	gac	gct	gtg	att	ctc	gct	act	gga	gct	gtg	gct	aag	cgg	ctt	agc	384
196	Ala	Asp	Ala	Val	Ile	Leu	Ala	Thr	Gly	Ala	Val	Ala	Lys	Arg	Leu	Ser	
197			115					120					125				
199	ttc	gtt	gga	tct	ggt	gaa	ggt	tct	gga	ggt	ttc	tgg	aac	cgt	gga	atc	432
200	Phe	Val	Gly	Ser	Gly	Glu	Gly	Ser	Gly	Gly	Phe	Trp	Asn	Arg	Gly	Ile	
201		130					135					140					
203	tcc	gct	tgt	gct	gtt	tgc	gac	gga	gct	gct	ccg	ata	ttc	cgt	aac	aaa	480
204	Ser	Ala	Cys	Ala	Val	Cys	Asp	Gly	Ala	Ala	Pro	Ile	Phe	Arg	Asn	Lys	
205	145				150				155						160		
207	cct	ctt	gcg	gtg	atc	ggt	gga	ggc	gat	tca	gca	atg	gaa	gaa	gca	aac	528
208	Pro	Leu	Ala	Val	Ile	Gly	Gly	Gly	Asp	Ser	Ala	Met	Glu	Glu	Ala	Asn	
209				165					170					175			
211	ttt	ctt	aca	aaa	tat	gga	tct	aaa	gtg	tat	ata	atc	cat	agg	aga	gat	576
212	Phe	Leu	Thr	Lys	Tyr	Gly	Ser	Lys	Val	Tyr	Ile	Ile	His	Arg	Arg	Asp	
213			180					185					190				
215	gct	ttt	aga	gcg	tct	aag	att	atg	cag	cag	cga	gct	ttg	tct	aat	cct	624
216	Ala	Phe	Arg	Ala	Ser	Lys	Ile	Met	Gln	Gln	Arg	Ala	Leu	Ser	Asn	Pro	
217			195					200					205				
219	aag	att	gat	gtg	att	tgg	aac	tcg	tct	gtt	gtg	gaa	gct	tat	gga	gat	672
220	Lys	Ile	Asp	Val	Ile	Trp	Asn	Ser	Ser	Val	Val	Glu	Ala	Tyr	Gly	Asp	
221		210					215					220					
223	gga	gaa	aga	gat	gtg	ctt	gga	gga	ttg	aaa	gtg	aag	aat	gtg	gtt	acc	720
224	Gly	Glu	Arg	Asp	Val	Leu	Gly	Gly	Leu	Lys	Val	Lys	Asn	Val	Val	Thr	
225	225				230				235					240			
227	gga	gat	gtt	tct	gat	tta	aaa	gtt	tct	gga	ttg	ttc	ttt	gct	att	ggt	768
228	Gly	Asp	Val	Ser	Asp	Leu	Lys	Val	Ser	Gly	Leu	Phe	Phe	Ala	Ile	Gly	
229				245					250					255			
231	cat	gag	cca	gct	acc	aag	ttt	ttg	gat	ggt	ggt	gtt	gag	tta	gat	tcg	816
232	His	Glu	Pro	Ala	Thr	Lys	Phe	Leu	Asp	Gly	Gly	Val	Glu	Leu	Asp	Ser	
233			260					265					270				
235	gat	ggt	tat	gtt	gtc	acg	aag	cct	ggt	act	aca	cag	act	agc	gtt	ccc	864
236	Asp	Gly	Tyr	Val	Val	Thr	Lys	Pro	Gly	Thr	Thr	Gln	Thr	Ser	Val	Pro	
237			275					280					285				
239	gga	gtt	ttc	gct	gcg	ggt	gat	gtt	cag	gat	aag	aag	tat	agg	caa	gcc	912
240	Gly	Val	Phe	Ala	Ala	Gly	Asp	Val	Gln	Asp	Lys	Lys	Tyr	Arg	Gln	Ala	
241		290					295					300					
243	atc	act	gct	gca	gga	act	ggg	tgc	atg	gca	gct	ttg	gat	gca	gag	cat	960
244	Ile	Thr	Ala	Ala	Gly	Thr	Gly	Cys	Met	Ala	Ala	Leu	Asp	Ala	Glu	His	
245	305				310						315				320		
247	tac	tta	caa	gag	att	gga	tct	cag	caa	ggt	aag	agt	gat	tga			1002



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

TIME: 10:57:50

Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

248 Tyr Leu Gln Glu Ile Gly Ser Gln Gln Gly Lys Ser Asp \*  
249                               325                               330

253 <210> SEQ ID NO: 11  
254 <211> LENGTH: 333  
255 <212> TYPE: PRT  
256 <213> ORGANISM: Artificial Sequence  
258 <220> FEATURE:  
259 <223> OTHER INFORMATION: Chimeric  
261 <400> SEQUENCE: 11

262 Met Asn Gly Leu Glu Thr His Asn Thr Arg Leu Cys Ile Val Gly Ser  
263   1                               5                               10                               15  
264 Gly Pro Ala Ala His Thr Ala Ala Ile Tyr Ala Ala Arg Ala Glu Leu  
265                               20                               25                               30  
266 Lys Pro Leu Leu Phe Glu Gly Trp Met Ala Asn Asp Ile Ala Pro Gly  
267                               35                               40                               45  
268 Gly Gln Leu Thr Thr Thr Thr Asp Val Glu Asn Phe Pro Gly Phe Pro  
269   50                               55                               60  
270 Glu Gly Ile Leu Gly Val Glu Leu Thr Asp Lys Phe Arg Lys Gln Ser  
271 65                               70                               75                               80  
272 Glu Arg Phe Gly Thr Thr Ile Phe Thr Glu Thr Val Thr Lys Val Asp  
273                               85                               90                               95  
274 Phe Ser Ser Lys Pro Phe Lys Leu Phe Thr Asp Ser Lys Ala Ile Leu  
275                               100                               105                               110  
276 Ala Asp Ala Val Ile Leu Ala Thr Gly Ala Val Ala Lys Arg Leu Ser  
277                               115                               120                               125  
278 Phe Val Gly Ser Gly Glu Gly Ser Gly Gly Phe Trp Asn Arg Gly Ile  
279   130                               135                               140  
280 Ser Ala Cys Ala Val Cys Asp Gly Ala Ala Pro Ile Phe Arg Asn Lys  
281 145                               150                               155                               160  
282 Pro Leu Ala Val Ile Gly Gly Gly Asp Ser Ala Met Glu Glu Ala Asn  
283                               165                               170                               175  
284 Phe Leu Thr Lys Tyr Gly Ser Lys Val Tyr Ile Ile His Arg Arg Asp  
285                               180                               185                               190  
286 Ala Phe Arg Ala Ser Lys Ile Met Gln Gln Arg Ala Leu Ser Asn Pro  
287                               195                               200                               205  
288 Lys Ile Asp Val Ile Trp Asn Ser Ser Val Val Glu Ala Tyr Gly Asp  
289   210                               215                               220  
290 Gly Glu Arg Asp Val Leu Gly Gly Leu Lys Val Lys Asn Val Val Thr  
291 225                               230                               235                               240  
292 Gly Asp Val Ser Asp Leu Lys Val Ser Gly Leu Phe Phe Ala Ile Gly  
293                               245                               250                               255  
294 His Glu Pro Ala Thr Lys Phe Leu Asp Gly Gly Val Glu Leu Asp Ser  
295                               260                               265                               270  
296 Asp Gly Tyr Val Val Thr Lys Pro Gly Thr Thr Gln Thr Ser Val Pro  
297                               275                               280                               285  
298 Gly Val Phe Ala Ala Gly Asp Val Gln Asp Lys Lys Tyr Arg Gln Ala  
299   290                               295                               300  
300 Ile Thr Ala Ala Gly Thr Gly Cys Met Ala Ala Leu Asp Ala Glu His  
301 305                               310                               315                               320

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002  
TIME: 10:57:51

Input Set : A:\351bseq.002  
Output Set: N:\CRF3\04242002\J032201A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:101; Xaa Pos. 16,17,38,42,45,54,55,58,66,72,75,79,80,81,94,99,103  
Seq#:109; Xaa Pos. 17,38,42,55,58,60,72,107  
Seq#:134; Xaa Pos. 21,35  
Seq#:245; Xaa Pos. 33,45,46  
Seq#:275; Xaa Pos. 9,11  
Seq#:287; Xaa Pos. 524  
Seq#:288; Xaa Pos. 666  
Seq#:290; Xaa Pos. 523  
Seq#:293; Xaa Pos. 520  
Seq#:294; Xaa Pos. 578  
Seq#:295; Xaa Pos. 523  
Seq#:296; Xaa Pos. 576  
Seq#:300; Xaa Pos. 612  
Seq#:303; Xaa Pos. 523  
Seq#:304; Xaa Pos. 527  
Seq#:307; Xaa Pos. 497  
Seq#:309; Xaa Pos. 497  
Seq#:312; Xaa Pos. 525  
Seq#:313; Xaa Pos. 498

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:10,16,17,18,19,22,24,27,30,33,34,35

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

TIME: 10:57:51

Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:162 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:166 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10  
L:538 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:541 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16  
L:544 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16  
L:680 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:680 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:704 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:704 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:737 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:740 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19  
L:743 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19  
L:856 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:19  
L:945 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:948 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22  
L:1151 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24  
L:1434 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:1437 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27  
L:1440 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27  
L:1729 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30  
L:2066 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:33  
L:2297 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:34  
L:2330 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
L:2334 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
L:2340 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35  
L:4706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0  
L:4708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:16  
L:4710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:32  
L:4712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:48  
L:4714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:64  
L:4716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:80  
L:4718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:96  
L:4895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:16  
L:4897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:32  
L:4899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:48  
L:4901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:64  
L:4905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:96  
L:5488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16  
L:5490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:32  
L:9690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:32  
L:11041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:0  
L:11598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:512  
L:11695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:656  
L:11848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:512  
L:12071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293 after pos.:512  
L:12158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294 after pos.:576  
L:12237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295 after pos.:512



VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,201A

DATE: 04/24/2002

TIME: 10:57:51

Input Set : A:\351bseq.002

Output Set: N:\CRF3\04242002\J032201A.raw

L:12322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296 after pos.:560  
L:12637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:300 after pos.:608  
L:12850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:303 after pos.:512  
L:12929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:512  
L:13152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307 after pos.:496  
L:13259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309 after pos.:496  
L:13418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312 after pos.:512  
L:13495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313 after pos.:496